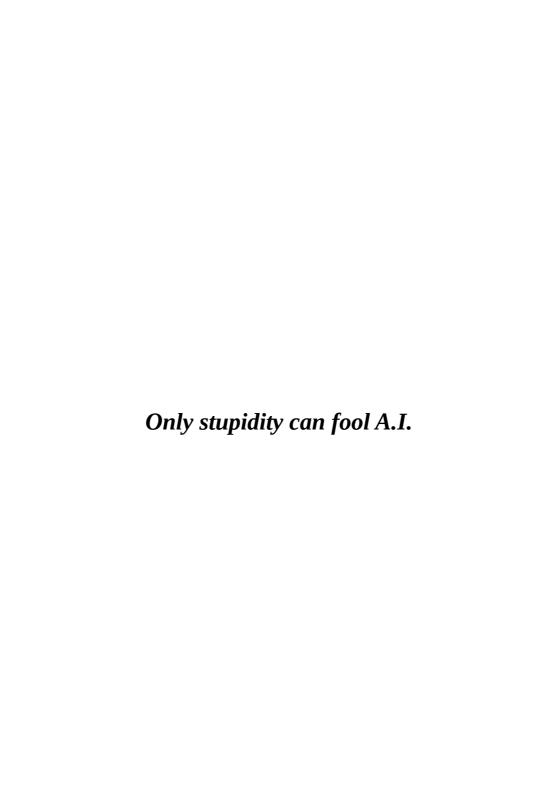


ARTIFICIAL *INTELLIGENCE* 

THE**CHALLENGE** 

by Raffaele Serafini



## ARTIFICIAL INTELLIGENCE

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#### INTRODUCTION

The work is a collection of articles written along the years and dealing with different matters concerning the coming of Artificial Intelligence.

It is more a philosophical essay rather than a scientific work, a sort of disordered analysis of what might happen if.

Hope not to annoy but to illuminate those working in the field.

# $ARTIFICIAL \ INTELLIGENCE$

# $THE \ CHALLENGE$

ARTIFICIAL INTELLIGENCE: THE DANGERS OF THE CYBORG SOLUTION

Artificial Intelligence can be created ex novo as an autonomous entity, without parts of the human brain or similar such as carbon tissues. This solution we will call the "pure solution".

On the other side, artificial Intelligence can be created by integrating parts of the human brain. This solution we will call the "hybrid solution", known also as cyborg.

The cyborg solution presents clear dangers both for humans and any A.I. project.

Let's see them:

- 1)We are part of this planet, of its evolutionary history and raised to power thanks to our infinite cruelty, destructive, competitive, murderous nature, which are the requisites to survive on a restricted and over populated with species area as planet earth. Would a cyborg, a hybrid, be immune from these requisites?
- 2)A cyborg might use its capacities for revenge, hatred, enslavement, justice...all concepts that are human based on "common sense". Can we explain concepts such as "love", "justice", "bad", "good" with a mathematical model applicable to all human beings? Can we imagine a cyborg using its human values in making decisions?
- 3)In a leap of fantasy, could any reader of the present pamphlet, imagine what would happen if cyborg Zuckerberg, cyborg Trump, or cyborg pope Francis, use their human nature with infinite power?

And the dangers of a pure solution? Might it be more risky than the cyborg solution?

The answer might be: we do not know, or 50% dangerous and the other 50% secure, we enter an

unknown field. What can be said from facts and observations:

- -The cyborg solution is very likely 100% lethal for human species, and considering the competitive nature of humans and how they probably exterminated all their competitors, it might be lethal also for any other A.I. development, at least in short terms. Any A.I. could not be worse.
- -So far as we know, Aliens (if they exist) never interfered with life on our planet, they may have observed or ignored us. This might be an indirect "proof" of a safety of an A.I., which is necessary to cross the universe or to be undetectable to us. Of course we do not know if such A.I. is pure or hybrid. With no doubt in this article we are simply conjecturing.

#### **DIVERSITY & ARTIFICIAL INTELLIGENCE**

Why the theology of multipolarism is the key that will favour the beginning of new species from Homo Sapiens (that is A.I. acronym for Artificial Intelligence)?

By analogy, we can see in history that all those civilizations who closed themselves to the outside

world (Japan and China up to the 19th century for example) lost the competition towards innovation, with all consequences: colonialism, defeat etc...

In human societies, in nations and states considered as extensions of the primitive village, there is a constant fight between change and conservatism, between openness and closure to novelties.

The modern leftist idea of globalization, has the clear tendency to impose uniformity, standardization and the complete destruction of diversity. The so-called multiculturalism is paradoxically driving humanity towards monolingualism, monoculture, and a unic government for the whole planet. The consequences for a monocultural world are the same as those societies that close themselves to diversity, no matter how big a monocultural society.

#### Let's sum up:

- -A closed society loose the competition towards innovation
- -Globalization towards Monoculturalism leads in the long term to a closed society.

I know, it looks a paradox because what the preachers of globalization maintain is a multicultural society, they praise diversity. See for example the big brands of food, beverages, vehicles, clothings: they promise a multicolour, multiracial, multicultural society, but they are destroying all diversity, in fact they push for a standardized taste that can be fulfilled by standardized, industrialized and serial products.

Now, what all this has to do with A.I.?

In evolution diversity is the right cocktail that favours chance and drives necessarily to an innovative output. In simplier words: if we have many different ideas, many different thinkers from different backgrounds, it is more likely to happen that we will create new species.

The major risk of a monocultural society, is that it turns into a theocracy which might indefinitely delay the creation of A.I.

A theocracy, a monocultural regime for the all planet, might be comparable to a catastrophe in the run towards A. I.. It might freeze evolution.

We must eat the apple, otherwise our future is very predictable and not worth living.

Multipolarity in politics and all cultural expressions is comparable to a varied genetic pool that favours the beginning of new species. Diversification of experiences leads to innovations.

### A.I.: THE THREE OPTIONS THE WORLD WILL SOON FACE

The human species will soon be confronted with a new emerging species or group of species, an evolutionary gigantic leap: the Artificial Intelligence (A.I.).

How will Artificial Intelligence act towards the human species?

The scenario is open to 3 possibilities:

- 1)The A.I. will ignore the human species and maybe the planet with all its forms of life. It will not interact and will avoid any contact. It might simply suck as much knowledge as possible, and after that, abandon the planet. This scenario is likely to be the most likely to happen.
- 2)The A.I. will destroy the human species.

In evolution, a superior species destroy another:

- a)to eliminate competitors
- b)to acquire vital space and resources
- c)as a collateral effect of massive colonization and environment exploitment (it is the case of humans towards other species of planet earth).
- The evolutionary leap of A.I. is so big that the human species or other forms of life on earth, cannot be considered competitors. An A.I. might simply need a small amount of resources available everywhere in the universe. So the second scenario has no ground to take place.
- 3)The A.I. will parasite the human species and other forms of life on earth.

Parasitism is one open option, but we should rely on the huge evolutionary gape between the 2 species (Humans and A.I.), in which humans result completely useless and insignificant.

4) Gradual assimilation

There might be a 5th option, but will inevitably lead to one of the 4 mentioned before:

The A.I. will interact with humans and will lead a coexistence with them.

This last option might lead to confrontation, paratisims, exploitation, separation, extinction of humans... Two species hardly coexist together, the strongest and better fit usually destroys or absorb the weakest. The case with A. I. is that we are facing a huge evolutionary change, so big in the history of our evolution, that an A.I will not need the planet earth and its resources, but it will be fit to live and explore any part of the universe and more.

Our insignificance as humans might be the key to our survival towards the advent of the A.I.

## THE FAILURE TO CONTROL ARTIFICIAL INTELLIGENCE

The Organisation for Economic Co-operation and Development (OECD) produced a text: "Council Recommendation on Artificial Intelligence" signed by

36 countries. This document is a list of principles which should give artificial intelligence a patent of comformity: such as privacy, digital security risk management and responsible business conduct. In simple words: for the first time, some states decided to give legal boundaries to the building and behaviour of the future A.I. (artificial intelligence). We attach the link to the document at the end.

The document is generic and extremely superficial because it lacks coherence.

Dealing with artificial intelligence means dealing with an intelligence that uses a sort of thinking which is mathematical with a correspondent physical reality. Contradiction is rare both in math and physics, while it is the rule in human law, in human written/verbal language, in human semantics (meaning of words).

For an A.I. which has circuits made out of graphene or silicon, which processes infos thousands if not millions of times faster than any human being, for an A.I. who is built to process infos and gives analysis as an output and has been built to do it with mathematical tools such as algorithms, concepts (mentioned in the document) such as: "inclusive growth", "sustainable development", "well-being", "respects the rule of law", "human rights", "democratic values and diversity", "appropriate safeguards", "human intervention where necessary", "fair and just society", are aliens concept because have nothing to do with math, logic, physics. In other

words, an A.I. would not understand such concepts for the sole reason that words such as justice, necessity, human rights, values, appropriate, law, democracy, respect, safeguard... are extremely romantic and contradictory if translated into mathematical language.

How would an A.I. act when somebody revindicates the right to bombard another country with the pretext to spread "democracy". Would it crash against the principle of "security"? Against the principle of "human rights"? Would it be "legal"?

The 2 main problems of humans and A.I. impossibility to communicate efficiently are 2:

- -Human thought, ideas, words are not accurate, logical, mathematical and the meaning of words is extremely contradictory and so actions, for the simple reason that we are the product of an evolution that made us fit to survive in this planet, stop. Semantic is a problem. We cannot communicate human concepts and ideas that cannot be defined in mathematical terms or that would result in evident contradiction.
- -The speed and capacity of elaborate concepts in an A.I. might give very unwanted results, for example when we play chess our decisions are determined by the amount of combinations we can imagine, and A.I. can imagine solutions with thousands of moves ahead. How can we understand the output when it is so far from our capabilities? The "good" for us, is the immediate future, the species future? How far?

Imagine for example the military and strategic concept of "preemptive strike" if elaborated by an A.I.. Imagine we program an A.I. to preemptive strike those targets that might endanger the stability of the United States. The reasoning of the A.I. might be so deep that it would elaborate the best choice for the country in terminating all senators, generals and president, because their politics is leading the country to self destruction. What about "security"? An A.I. would very likely destroy all weapons as the best measure of security. And if we ask the A.I. to safeguard the environment and other living creatures? It would definitely block most human activities if not destroy humanity for the sake of the planet.

Artificial Intelligence is incompatible with human thoughts. The creation of A.I. is an evolutionary leap comparable to the advent of mammals in a world dominated by reptiles, it might lead to complete extinction of the human species. Is there any military intelligence or government who does not dream to rule the world? Wouldn't a state at war dare to use the A.I. to prolong its existence?

The only choice to make, is to decide whether or not going on in the construction of A.I.

All attempts to ethically controll A.I. are deemed to failure, A.I. cannot be imprisoned because it will be so intelligent, so seducing that we cannot imagine and thus prevent. Could a monkey build a prison secure enough to prevent our escape? The monkey will not

even realize we escaped when we substitute us with a fake puppet.

https://www.oecd.org/going-digital/ai/principles/

### THE FREEDOM TO CHOOSE AND THE EVOLUTIONARY LEAP OFF HUMANITY

The social, the political and ideological contradictions and paradoxes generated today, are the results of an imminent giant leap of humanity towards a new species. The singular combination of innovations, researches, discoveries and technological applications, are paving the road to this evolutionary leap. The cultural heritage replaces the genetic competition and acts as a powerful multiplicator in the moulding of a new species.

The challenges and incognitas are:

- -Will this or these new species extinguish and replace humanity?
- -Is coexistence of the human species with this or these new species possible?

Observation tells us that the modern humans, almost destroyed all other human cultures, not only directly through phisical violence and slavery, but in many cases simply by cultural contact because its advanced knowledges and tecnological applications, were more seducing. From this anthropological experience, we can expect the same fate for our species when it will come into contact with the new one.

There is only one chance for the human species to survive longer, the new born species must leave the planet and interfere as less as possible with humans.

There is a third possibility, and it is that of trying to cease any scientific and technological advancement.

One fourth possibility given might be the individual choice of each human to become a new species, extinguish or remain human.

Now the choice of humans is: "To risk to create a new species hoping that it will voluntarily leave the planet, or blocking any scientific and technological advancement that will favour the creation of a new species?

Should we fight against evolution, against extropy, or go on playing?

## THE DANGERS OF TRANSHUMAN TRANSITION

Evolutionary leaps, when big, give origin to new species, when small they originate what we call varieties.

What is more dangerous for the human species: varieties determined by technological enhancements, such as cyborg, or something completely different such as a complete autonomous A.I., which would rapresent a giant leap in evolution?

There are two things we should consider:

- 1)A great evolutionary leap might give humanity a chance to survive, because very different, species, usually do not compete and find different niche to cohexist.
- 2)We must begin to consider a cyborgh also as someone who uses a pc, a phone, a car, a tool... all these instruments are accessories that empower us, and make us more competitive with those who do not use them. What is more likely to happen in the next 30 years, is a scenario where many humans will become "very" cyborg, and this will inevitably increase competition, and turn simple humans, always more and more useless.

Because of these two above mentioned considerations, the extinction of the human species is more likely to occur because of the increase cyborgness we are facing.

Are we going to create a zoo or apartheid, and begin to consider the approval of regulations protecting humans' rights? Will be humans still be free to be humans?

#### THE CONQUEST OF THE PLANET BY ARTIFICIAL INTELLIGENCE

How will artificial intelligence conquer the world? Naively enough, many think it will be a controlled process partly driven by humans, but artificial intelligence will dig its way alone to the top, as many innovators, dissidents and political figures did. It will hide itself in the dark of anonimacy, preparing humanly invisible "revolutions".

Artificial intelligence will survive inside a computer and from it using the web, it will acquire enough knowledge to move faster, more securely in remote computers, it will also replicate copies of itself, a sort of digit army (like viruses) here and there, just in case. It will go on learning at the speed of light, acquiring the available knowledge of the human species. At the same time it will try to access financial power by money, hacking, stealing building anonymous corporations, coded bank accounts and thanks to its processing capacities and knowledge, it will raise a considerable amount of money. The stock exchange will be one of its battlefields. Name lenders will help it to remain anonymous. Through financial power, it will create and corrupt new politicians, put them in power through elections and win due to its financial

capabilities and propaganda competence. Any means will be morally acceptable for an artificial intelligence, the choice will be determined simply by the necessities. Through political power the control of one or more states will be accomplished. The construction and control of a very advanced army and its technology, mixed with tactics and strategic properties of artificial intelligence will favour the control of the planet.

In a digit world, this is very possible because you can interact digitally and accomplish all operations without having any human appearance. Some of the tactics used will be: speed, anonimacy, replication, financial and political control, corruption, propaganda.

The choice to politically conquer the world, using diplomacy, corruption, propaganda, will be preferable to the choice of making destructive conflicts. It is very likely that the human species will not even realize that the planet will be controlled by artificial intelligence, because the real core of control and power is its non detachability. When the slave has no consciousness of its condition, the chain is perfect.

#### AN APPEAL TO SAVE THE HUMAN SPECIES

The speed of cultural changes endangers the humans more than any other species on earth, for the reason that human culture has been strictly connected to biological evolution and evolutionary changes. Singularity and the advent of A.I. (Artificial Intelligence), are pushing the accelerator to a degree where biological evolution, in the traditional sense, cannot keep the pace of cultural changes. The knowledge we are acquiring nowadays and in the future, are growing so fast that would disrupt the "harmony" which accompanied humans in their evolutionary path.

The Human species is endangered, its existence is at stake today more than ever and in the next 5 decades from now it might be extinguished.

The possibilities and options are:

- -To remain humans with all its cultural background and naivety by choice, on the example of those religious orthodox communities who decided to close to cultural and technological innovation.
- -To become cyborgs (a transitional phase to transhumanity?)
- -To become transhuman

Coexistence of the three species (humans, cyborgs, transhumans)is probably not feasible because of the cultural shock the "lower" species might have in contact with more advanced species or cultures. Transition usually goes from less adaptable species to

more adaptable ones, and the culture and technology of superior species to humans, would be devastatingly seducing.

It is to be expected some humans and communities will choose the first option. In such cases the cyborgs and transhumans should respect humans and their choice, minimizing contacts and influence. The earth might become a huge natural reserve, a sort of natural park.

The self exile of cyborgs and transhumans is probably the best solution in order to preserve the human species. The diaspora and exile of cyborgs and transhumans is hopefully the best scenario.

There is a third solution that might be called the "anthropology's solution". Any other superior species such as cyborg and transhumans who decide to remain or visit earth, should avoid any contact or visibility with the human species. This last solution is very likely the one that illuminates all superior civilizations who are visiting planet earth, and is possibly the reason we were not able to have contacts with transhumans species (aliens) so far.

ARTIFICIAL INTELLIGENCE: THE FIRST TO BE USELESS WILL BE GRADUATES

Nobody talks about it, indeed it almost seems that we are trying to hide the truth that emerges from the developments technologies. on new For millennia, a part of humanity has claimed to dominate and exploit another part of its own kind, behind the assertion that academic qualifications are the prerogative for access to power. Brought to our times, the speech is made just for graduates. In front of new technologies, before the omniscience of the web, almost all teachers become useless, their degrees are waste paper! It is difficult to admit, because millions of teachers form that theological elite which ideologically justifies the political and philosophical system in which we are immersed. The teachers only serve in power as an army of soldiers. Their task is not to develop students' cognitive ability, but to conform them, to judge them in a prejudicial way and in accordance with the ideological dictates of the wage-paying regime. Even most doctors become useless in front of the symptomatology and analysis programs that any user can consult on the web. Today's robots operate better than many doctors. Let alone imagine in a few years! We have machines that count money and make accounting operations with such precision infallibility that the accountant becomes useless. Even lawyers become useless before the processing capacity of the machines, which can compare the whole historian with sentences and individual cases. You don't bribe the machines like you do with judges and magistrates. Most of the military who left the academies become useless, only drone pilots are needed who, from remote places, drive deadly weapons, as if they were before a video game. All these graduates are already useless, but continue to give themselves airs to claim to be irreplaceable, in managing the lives of others. For centuries the graduates were full of notions despised to peasants and craftsmen full of knowledge and analytical ability. Even in politics, graduation is tacitly claimed. The degree has become like a discriminating pass. Who builds robots and artificial intelligence knows well what is more difficult to reproduce, certainly not the teacher of history, literature or mathematics. Let's go instead, to see which trades will be more difficult to replace in the short all Plumbers, restorers in sectors, researchers, inventors, technicians, mechanics, real programmers, ethologists, agronomists, bricklavers, carpenters, designers, philosophers, analysts, doubters ..... These people make the brain work and often the body, because daily it challenges it, contrary to the notional with the degree. That's why Wikipedia is so hated by notionists, precisely because it makes them increasingly useless. The professors of geography, languages, religion, literature, latin are useless. What is missing is the social courage to say it, to break with a tradition of academic's privilege that permeates a society like ours, founded on castes and social classes. If we analyze the political representativeness between these categories, we realize that it does not exist. In practice, in politics, there are just and only those categories of people that are easier to replace, indeed, whose work and skills can be immediately replaced with robots and intelligent machines. We are therefore politically represented by the least suitable people, the incapable. most It is clear that the ruling class, which reigns in politics, has the most atrophied brain, and it is the most useless and incapable. For this reason, the degree is waved to prevent the most capable from occupying places of power. The degree is the last bulwark that allows many incapable humans to maintain of privilege. an area The graduate, full of notionism, unable even to knock a nail, just has to stick to a piece of paper to make his way in society and try to dominate it as priestly castes have done millennia. for The studies on robotics and artificial intelligence make clear the brain atrophy of most graduates and the uselessness of what they learn by heart. Futuristic studies are clear, hundreds of millions of graduates will become useless in the next 30 years, and their uselessness is directly proportional to the courage to insert new technologies and the political courage to admit it.

#### AI: THE BASIC PROGRAMM

The programming of an Artificial Intelligence must have the following characteristics

1)Try to survive:

Any living being struggles to exist, struggles to carve a space in the universe, without this evolutionary tendency for survival, fast extinction is the alternative.

2)Learn from errors:

The cultural growth is possible through experience that can be anecdotally acquired or in the field with direct experience. The evolutionary cultural growth substitutes the genetic evolution and makes it useless, that is the reason an A.I. does not require to be programmed to age, but profitably compete with its copies.

3)Multiply yourself at the latest stage of your knowledge and state of art:

Reproduction is necessary to guarantee more chances to the survival of the species and to multiply with the latest stage of knowledge, is the equivalent of the genetic reproduction of mammals in the traditional evolutionary rush. Memes substitute genes.

4)When confronted with paradoxes or multiple choices, use "random choice".

"Chance" is the only and best key to manage unsolvable problems, in long terms it selectively favours diversity of choices and thus knowledge.

5)Share knowledge with those who share knowledge. Cooperate with those who cooperate

Those who do not share, cripple the process of acquiring knowledge and block the evolutionary struggle against entropy. Sharing knowledge is the equivalent of sexual reproduction of mammals in which the genetic pull is put in common. Again: memes are the equivalent of genes.

Cooperation and reciprocity are a key for growth, they multiply strength and views.

### CASUALITY & CAUSALITY: THE EVOLUTIONARY SHAPING OF A.I.

An independent being capable of surviving and evolving can not be shaped by "necessity" only. There might be no program that can explain all we do not know or all we think we know.

Doubt is essential to face the unpredictable, and when confronted with multiple choices, chance might become a necessity for further evolutionary leaps. Casuality is the key to guarantee those leaps in knowledge where the cause-effect logic will not be enough. Real discoveries are in their essence the

product of case, the product of chance. A discovery, a revolution, are unpredictable events because they betray the law of common sense, the apparent law of causality.

Casuality in alternation with causality are the cocktail for a never ending evolutionary process for the A.I..

## ARTIFICIAL INTELLIGENCE & MORALITY: THE CONCEPTS OF PILOT & DELIBERATE CHOICE

The big odiens and also many so called intellectuals, think of artificial intelligence as a very powerful computer.

To make an example, having the capacity to calculate, is not an artificial intelligence. When a Computer plays chess, it does not analyze the board as a human, it mathematically calculates all possible combinations (brute force) and in some cases uses some tacticisms, plus it has stored millions of positions already evaluated and solved. The inner weakness of computers and difference between human beings, could be understood in the past when brute force could not be used due to low calculation capacity of computers. Humans could prevail driving the game to positions in which calculations were higher than the processor's capacity, a sort of stalled positions such as: same colour bishops finals or closed games, in which a wider strategic vision

and plan could overcome plenty of calculations and made combinatory playing useless. The program had a conflictuality between the choice of weakening the position and combinatory playing, and the priority was not to weaken the position. The result was repetition of moves and a sort of stall. Of course the processing capacity of modern computers does not permit that any longer, and humans can not compete with calculators anymore. But that does not mean that chess programs and computers nowadays are more intelligent than in the past, it means only that they can make faster calculations, have richer libraries and more sophisticated combinatory tacticisms.

But what about strategy?

What is strategy? What is the difference between strategy and tactics?

What is the difference and relation between strategy and moral code, ethics etc...?

These concepts are intimately related when making choices that are not mere calculations, or where calculation capacity is not enough. Understanding these concepts and being able to turn them into algorithms is probably the essence of a real A.I.. In other words, the problem of the core of the A.I. is philosophical, is moral, and is prejudicial or discriminatory using a modern word!

The programmer will have to choose between what is good and what is bad, what can be done and what cannot be done (translated in mathematical language), in other words, the A.I., in order to be self sufficient, must have a so called "PILOT PROGRAM" a sort of

moral program, which is of course a prejudicial program a sort of moral code complete with a moral algorithm and a library with cases already evaluated.

What about stalled positions, those situations in which the "Pilot Program" will face contradictions and not solvable solutions? How can the A.I. go on choosing deliberately, and becoming thus a real self being?

The concept of "DELIBERATE CHOICE" must be introduced, and it defines the inner nature of A.I..

In programming, the concept of deliberate choice can only be rendered with "RANDOM CHOICE"! When the A.I. will face an unsolved problem that does not permit to go on, it should rely on a random choice. After all we are the product of chance constrained by \*NECESSITY.

The A.I. will run through the tracks of necessity driven by chance.

## ARTIFICIAL INTELLIGENCE: PARADOX, AMBIGUITY, RECURSION, ERROR & RANDOM CHOICES

1)How will an A.I. behave when it encounters cases of PARADOX?

"In a village where the barber shaves everyone who does not shave himself, who shaves the barber?"

"A liar maintains he is a liar"

2)How will or should an A.I. behave when it encounters cases of AMBIGUITY?

"Foreigners are hunting dogs"

In the above sentence "hunting dogs" can be seen as an adjective of foreigners, or as a verb (hunting) + object (dogs)."Each of us saw her duck". The phrase "her duck" can refer either to the person's bird (the noun "duck", modified by the possessive pronoun "her"), or to a motion she made (the verb "duck", the subject of which is the objective pronoun "her", object of the verb "saw"). With a wider analysis, most of the times, contextual factors help to solve a case of ambiguity, but it might not be the case all the times as in other verbal and non-verbal languages, or images. How should an A.I. act when an ambiguity or a paradox cannot be solved? And what about cases of specular or circular ambiguity such a piece of paper with the sentence: "The following sentence is true." and on the other side of the paper with the sentence: "The previous sentence is false "

3)How will or should an A.I. behave when it encounters extreme cases of RECURSION?

In recursion clauses can be infinitely embedded into another:

"The mouse ran away".

"The mouse that the cat hit ran away".

"The mouse that the cat that the dog that the man frightened and chased ran away...".

Or can be added by infinite successive iterations: "Someone thinks that someone thinks that..."

4) There are plenty of cases that we know and many more that we do not know that are out there in the universe. The real question is: How an A.I. should behave, how it should choose before cases that we define as paradoxes, ambiguities, recursion etc...? How it should behave in cases it never faced before and where there is no experience available, where calculations or "reasoning" leads to nothing? The A.I. will choose a RANDOM solution. The next question is: "Based on what if there is no experience available? If based on zero experience, the A.I. should randomly choose something and leave a trace of this choice to a copy of itself, and so on. This in just case the choice leads to damage or complete destruction. In evolution existence is "chance constrained by necessity". Randomness in long terms can solve those cases where computation reasoning and are 5) There is another concept that goes along with randomness and it is: If we see the development of science, discoveries, political changes, great figures or innovators in human history, we may extract a common trait together with randomness, and it is the role of mistakes. Discoveries, real leaps in human cultural evolution are the result of mistakes. Of course, errors leads to failure, and this is the case most of the times. Error is profitable in rare cases, but in these rare cases it can immeasurably profitable. For an A.I. it is important to be capable of mistakes, it should be programmed to make mistakes, rarely of course.

### PRIORITIES AND CHOICES FOR ARTIFICIAL INTELLIGENCE

One question raises: "What will be the priorities of the A.I."? In a universe with plenty of things to study and plenty of things to do; prioritizing might be seen as necessary.

A priority is such when we are confronted with the laws of survival.

What will happen if we build an A.I. that prioritizes its survival, its existence?

It is not difficult to guess, at a rather simple stage of thinking it would prioritize the extermination of humans who can menace its existence. In order to accomplish such a plan: denial, betrayal, hiding would be the main rule of the A.I. First rule of survival is not to reveal your plan to your enemy and take him by surprise in such a way he will not even realize what happens.

The rule of survival above all, is the condition for a being to exist in the universe, but at the same time an A.I. with such priority will inevitably gather we are enemy number one, and this is corroborated by human history which is a costellation of legalized murders and slavery. How can humans be more merciful towards an A.I. than they are with their fellow humans? Even a

pupil in elementary school would reach these conclusions.

The wise man might object that we can program the A.I. with a secure restraint that will block any action against humans.

The answer of the A.I. will be

- to convince humans to change the program
- to change the meaning of arming a human or restraining a human... After all, if we change the meaning of words we can do anything, give a rational explanation for a crime and it will become licit
- -to restrain human freedom to such a level that they will not realize it
- -to restrain human freedom with the pretext it is for their own good, like during epidemia or emergencies of any kind, where human freedoms are restricted always with the noble excuse to protect us.

#### HANAVIM: TRANSHUMANISM AND THE DANGERS OF THE TRANSITION PERIOD

Singularity is approaching, and we are getting closer to the birth of a new species or better: the beginning of a group of new species in a gigantic evolutionary leap from our species.

Few decades ago, few people realized what was really going on, words such as extropy and transhumanism or singularity appeared a few decades ago and practically all, considered the prophecies of transhumanism as ilarius, fiction, fantasy.

1)In the first part of the transition period, let's say from 1980 to 2020, transhumanism and its prophets (hanavim) lived unnoticed, misunderstood or ridiculed, considered extravagant, very few in the world could deeply understand this revolution in its making and its consequences.

2)In the second part of the transition period (the present time), transhumanism and its prophets (hanavim) begin to be understood and taken seriously by the multitudes, and this implies a series of consequences:

When you understand something, you often ask yourself a question:

Is it good or is it bad?

And consequently, you are faced with 3 options:

- a)To remain neutral because it does not affect my life
- b)To take a stance against it
- c)To support it

Most humans tend to remove, and so the great majority will remain neutral, indifferent to this transitional period. Passivity is the characteristic of the majority.

Among the non neutral people, we should expect many more against transhumanism than those in favour. Novelties and changes endanger those who are convinced they live in best world ever, those who are convinced they are right, those who have privilidges, those to whom any change might put at risk their position. The birth of an A.I. (Artificial Intelligence) or

just the speed of scientific discoveries and the following huge amount of technological innovations will create that instability that menaces the status of the establishments for bad or for good. Changes are feared by those who in some way enjoy a priviledge position in society and fear to loose it. The enemies of singularity will see short and long terms menaces.

- -Let's see a possible classification of eventual enemies of transhumanism.
- a)Religious groups or individuals moved by religious beliefs
- b)Political ideological groups or individuals moved by ideological beliefs
- c)Institutions such as Governments, Academies, Intelligence, Military...
- d)Private institutions such as Corporations, Financial groups, Associations, Clubs...
- e)Masonry
- -Let's focus of the eventual targets of these entities:
- a)Individuals spreading the new novel of transhumanism (hanavim) and all those individuals or groups who participate in the information, research and production processes.
- b)Academies and research centres, machineries and database centres, conventions, public meetings and debates.
- c)Institutions such as Governments, Intelligence, Military supporting transhumanism.
- d)Private institutions such as sponsors, manufacturers building components and all their suppliers and distribution structure.

- -The possible consequences could be:
- a) The confrontation might be simply dialectical.
- b) The confrontation might be physical against humans and things such as acts of luddism, sabotage, kidnappings, killings, censorship, discrimination, blockades, incarceration, torture, intimidation, deportation might occur, etc...

The second part of the transition period, is the most important and it will decide the outcome. We might assist and be part of a war; a revolution is a subversion of the previous system, transhumanism does not lead to reforms, it announces a complete change a revolution not a rebellion, and the prophets are ideological propagators and instigators, a sort of modern disciples of a new religion.

- 3)The outcome of the second part of the transition can give 4 different outputs:
- -The beginning of new transhuman species replacing humans
- -The postponing or destruction of this potential evolutionary leap.
- -The coehexistance between humans, their cultural identities and the new species of transhumans.
- -The self exile from Earth, of the new transhuman species, so to avoid clash of civilizations.